

## Coast Guard, DHS

## § 157.170

discharge of crude oil from that tank is discharged in accordance with § 157.37(a).

[CGD 77-058b, 45 FR 43709, June 30, 1980, as amended by CGD 82-28, 50 FR 11628, Mar. 22, 1985; USCG-2000-7641, 66 FR 55573, Nov. 2, 2001]

### § 157.162 Crude oil washing during a voyage.

The master of a tank vessel having a COW system under § 157.10(e), § 157.10a(a)(2), or § 157.10c(b)(2) shall ensure that each cargo tank that is crude oil washed during a voyage other than a ballast voyage—

(a) Remains empty so that the tank may be inspected upon arrival at the next discharge port; and

(b) If it is to be used as a ballast tank when leaving the discharge port, is ballasted before the vessel departs from that discharge port so that the tank may be inspected under § 157.140(a)(2).

[CGD 77-058b, 45 FR 43709, June 30, 1980, as amended by CGD 82-28, 50 FR 11628, Mar. 22, 1985]

### § 157.164 Use of inert gas system.

(a) The master of a tank vessel having a COW system under § 157.10(e), § 157.10a(a)(2), or § 157.10c(b)(2) shall ensure the following:

(1) Before each cargo tank is crude oil washed, the oxygen content in the tank is measured at each of the following locations in the tank:

(i) One meter from the deck.

(ii) In the center of the ullage space.

(2) Before each cargo tank with partial bulkheads is crude oil washed, each area of that tank formed by each partial bulkhead is measured in accordance with paragraph (a)(1) of this section.

(3) Before each cargo tank is crude oil washed, the oxygen content in that tank is 8 percent or less by volume at the locations under paragraph (a)(1) of this section.

(4) During COW operations, the following are maintained in each cargo tank being crude oil washed:

(i) A gas or a mixture of gases with an oxygen content of 8 percent or less by volume.

(ii) A positive atmospheric pressure.

(5) During COW operations, a crew member monitors the instrumentation under 46 CFR 32.53-60(a)(1), except if that instrumentation has an alarm that sounds in the cargo control room when the oxygen content exceeds 8 percent by volume.

(b) Crude oil washing of the cargo tanks must be terminated when paragraph (a)(4) of this section is not met and crude oil washing of that tank may not be resumed until the requirements of paragraph (a)(4) of this section are met.

[CGD 77-058b, 45 FR 43709, June 30, 1980, as amended by CGD 82-28, 50 FR 11628, Mar. 22, 1985]

### § 157.166 Hydrocarbon emissions.

If the tank vessel having a COW system under § 157.10a(a)(2) or § 157.10c(b)(2) transfers cargo at a port in the United States that is in an area designated in 40 CFR Part 81 as an area that does not meet the national primary ambient air quality ozone standard under 40 CFR Part 50, issued under the Clean Air Act, as amended (42 U.S.C. 1857), the master of the vessel shall ensure that when cargo tanks are ballasted in that port the hydrocarbon vapors in each tank are contained by a means under § 157.132.

NOTE: Questions relating to whether or not a particular port is located in an area designated in 40 CFR Part 81 as an area that does not meet the national primary ambient air quality standard under 40 CFR Part 50 should be directed to the Plans Analysis Section of the Environmental Protection Agency at (919) 541-5665.

[CGD 82-28, 50 FR 11628, Mar. 22, 1985]

### § 157.168 Crew member: Main deck watch.

During COW operations, the master shall ensure that at least one member of the crew with a designated responsibility for monitoring COW operations is on the main deck at all times.

### § 157.170 COW equipment: Removal.

(a) Whenever a deck mounted COW machine is removed from the tank, the master shall ensure that:

(1) The supply piping to that machine is blanked off; and

## § 157.172

(2) The tank opening is sealed by a secured plate made of steel or an equivalent material accepted by the Commandant.

(b) If the equipment for the COW system is removed from a cargo tank for the carriage of cargoes other than crude oil and then reinstalled, the master shall ensure that, before COW operations are conducted, the system has no crude oil leakage.

### § 157.172 Limitations on grades of crude oil carried.

If a tank vessel having a COW system meeting § 157.10a(a)(2) or § 157.10c(b)(2) does not have segregated ballast tanks or dedicated clean ballast tanks that meet § 157.10c(c)(2), the owner, operator, and master shall ensure that the vessel carries only the grades of crude oil that can be used for crude oil washing.

[CGD 82-28, 50 FR 11628, Mar. 22, 1985]

## Subpart E—Dedicated Clean Ballast Tanks on Tank Vessels

SOURCE: CGD 77-058b, 45 FR 43714, June 30, 1980, unless otherwise noted.

### GENERAL

### § 157.200 Plans for U.S. tank vessels: Submission.

(a) Before modifications are made to a U.S. vessel to meet § 157.10a(b), § 157.10b(a)(2), § 157.10a(c)(2), or § 157.10c(c)(2), the owner or operator must submit to the Coast Guard plans or documents that include the following:

(1) The dedicated clean ballast tank arrangement.

(2) Documentation, calculations, or revised stability information to show that the vessel, with the addition of the dedicated clean ballast tanks, meets the stability standards for load line assignment in 46 CFR Part 42.

(3) Documentation, calculations, or a loading manual to show that the vessel, with the addition of the dedicated clean ballast tanks, meets the structural standards in 46 CFR Part 32.

(4) A drawing or diagram of the pumping and piping system for the dedicated clean ballast tanks.

## 33 CFR Ch. I (7-1-11 Edition)

(b) Plans under paragraph (a) of this section must be submitted to the Officer in Charge, Marine Inspection, of the zone in which the dedicated clean ballast tank system is installed or to the Commanding Officer, U.S. Coast Guard Marine Safety Center, 2100 2nd St. SW., Stop 7102, Washington, DC 20593-7102.

(Reporting and Recordkeeping requirements approved by the Office of Management and Budget under control number 1625-0036)

[CGD 77-058b, 45 FR 43714, June 30, 1980, as amended by CGD 79-152, 45 FR 82250, Dec. 15, 1980; CGD 82-28, 50 FR 11628, and 11630, Mar. 22, 1985; CGD 85-048a, 51 FR 15481, Apr. 24, 1986; USCG-1998-3799, 63 FR 35531, June 30, 1998; USCG-2006-25150, 71 FR 39210, July 12, 2006; USCG-2008-0179, 73 FR 35015, June 19, 2008; USCG-2010-0351, 75 FR 36286, June 25, 2010]

### § 157.202 Plans and documents for foreign tank vessels: Submission.

The owner or operator of a foreign tank vessel under § 150.10a(b), § 157.10a(c)(2), or § 157.10b(a)(2) who desires the letter from the Coast Guard under § 157.204 accepting the plans submitted under this paragraph, and the owner or operator of a foreign tank vessel under § 150.10c(c)(2) must submit to the Commandant (CG-543), U.S. Coast Guard, Washington, D.C. 20593-0001—

(a) Plans that include:

(1) The dedicated clean ballast tank arrangement; and

(2) A drawing or diagram of the pumping and piping system for the dedicated clean ballast tanks; and

(b) Documentation from the authority that assigned the load line to the tank vessel that states that the location of the dedicated clean ballast tanks is acceptable to that authority.

[CGD 77-058b, 45 FR 43714, June 30, 1980, as amended by CGD 82-28, 50 FR 11629, Mar. 22, 1985; CGD 88-052, 53 FR 25122, July 1, 1988; CGD 96-026, 61 FR 33668, June 28, 1996]

### § 157.204 Letter of acceptance.

The Coast Guard informs the submitter by letter that the plans submitted under § 157.200 or the plans and documents submitted under § 157.202 are accepted, if the plans submitted under § 157.200 or the plans and documents submitted under § 157.202 show